

**PATENT APPLICATION**

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IMAGE PROJECTION SYSTEM COMPRISING A SINGLE IMAGER  
WHICH IS EQUIPPED WITH PHOTSENSITIVE SENSORS FOR THE  
IDENTIFICATION OF ILLUMINATION COLOURS.

**ABSTRACT**

System comprising an illumination system for moving bands of different colored light over the light valve, means for identifying the illumination color of each row of pixels of this light valve, means of managing video data of said images to control the writing of the pixels, means of synchronizing the video data sent to each row of pixels according to the illumination color of said row, identified by the identification means. The identification means comprise, level with certain rows of pixels of the light valve, at least one photosensitive sensor incorporated in the substrate and designed to identify in real time the illumination color of each row.

FIG 1